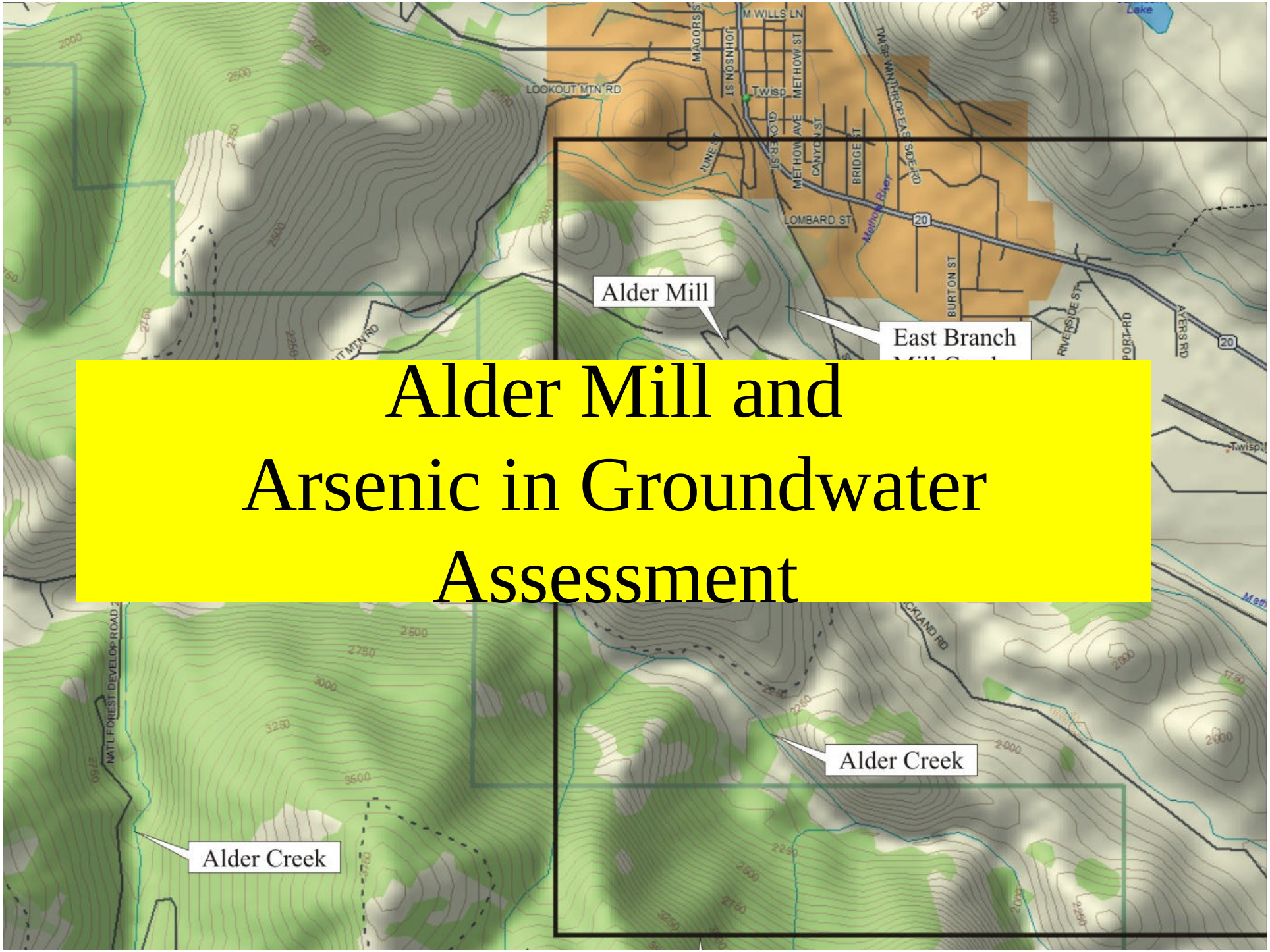
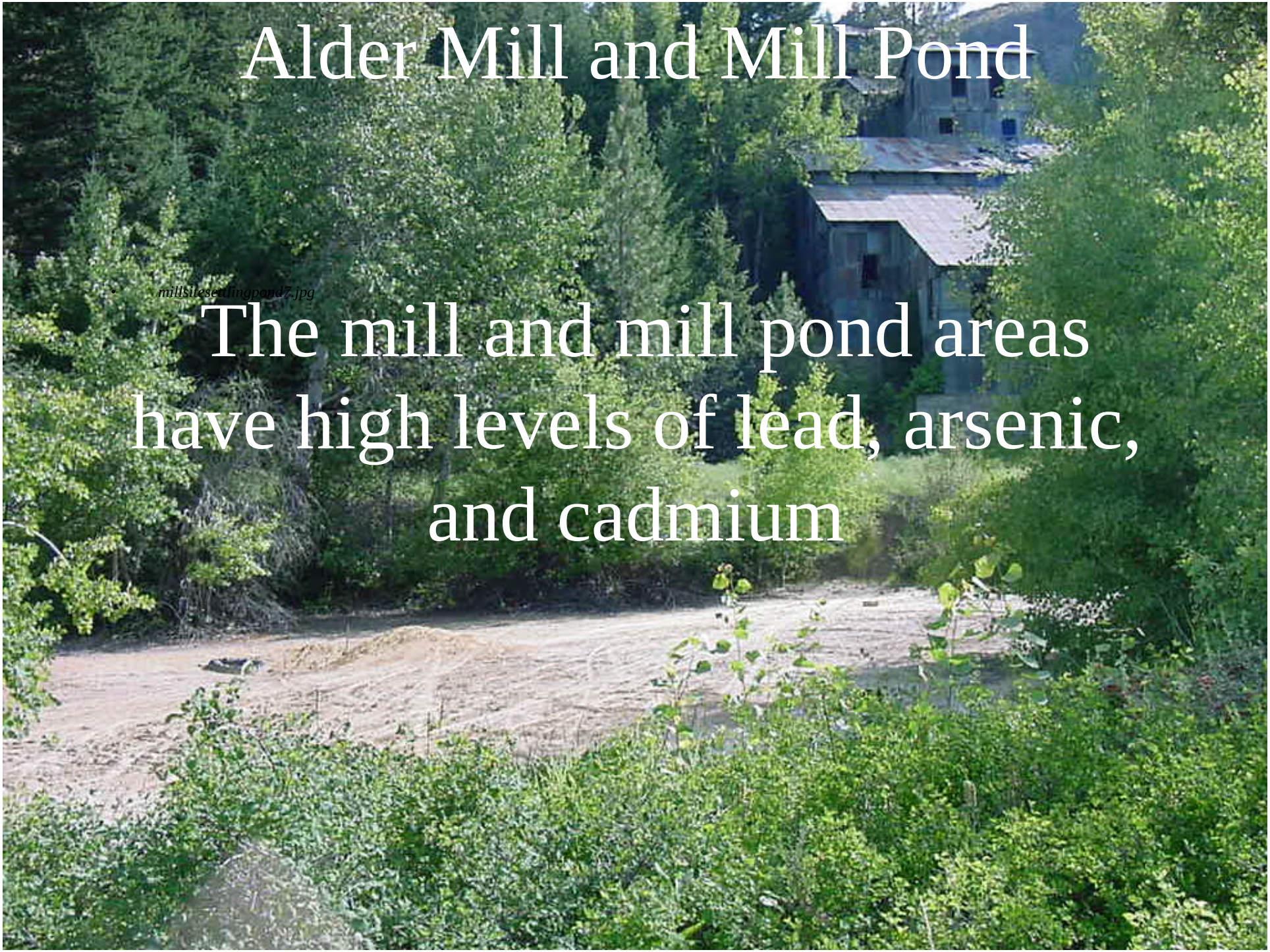


Alder Mill and Arsenic in Groundwater Assessment

Alder Mill and Mill Pond



millsitesettlingpond7.jpg

The mill and mill pond areas have high levels of lead, arsenic, and cadmium

The Mill and Mill Pond represent a direct exposure hazard for trespassers who frequent the area.

- *millsiteballmill4.jpg*

Next steps

- Fencing of Upper Tailings Pond
- Demolition of Mill
- Relocation of Mill Pond to a repository to prevent direct contact *figure 3-3*

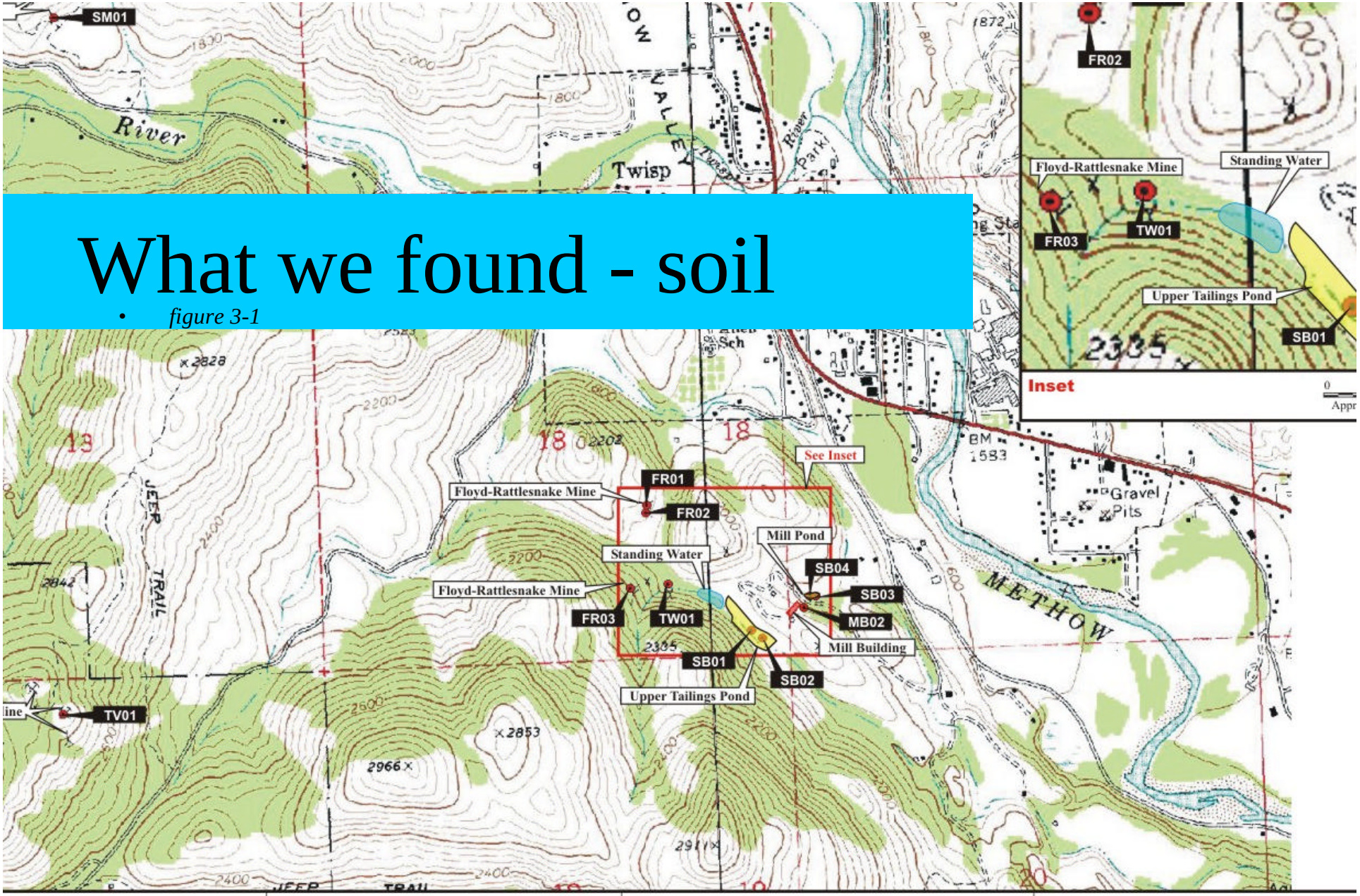
Groundwater Investigation

What was investigated

- Wells used for drinking water
- Groundwater above and below the Alder Mill upper and lower tailings ponds
- Soil from the Alder Mill and nearby mines (Floyd Rattlesnake, Twisp View, Spokane)
- Leachability of tailings piles. *figure 3-1*

What we found - soil

- *figure 3-1*



d environment, inc.
alists in the Environment

N

0 1,320 2,640
Approximate Scale in Feet

ALDER GOLD AND COPPER COMPANY SITE
INTEGRATED ASSESSMENT
Twisp, Washington

Figure 3-1
SURFACE SOIL SAMPLE LOC

Date:	Drawn by:	
8/9/02	AES	10:02010007\S

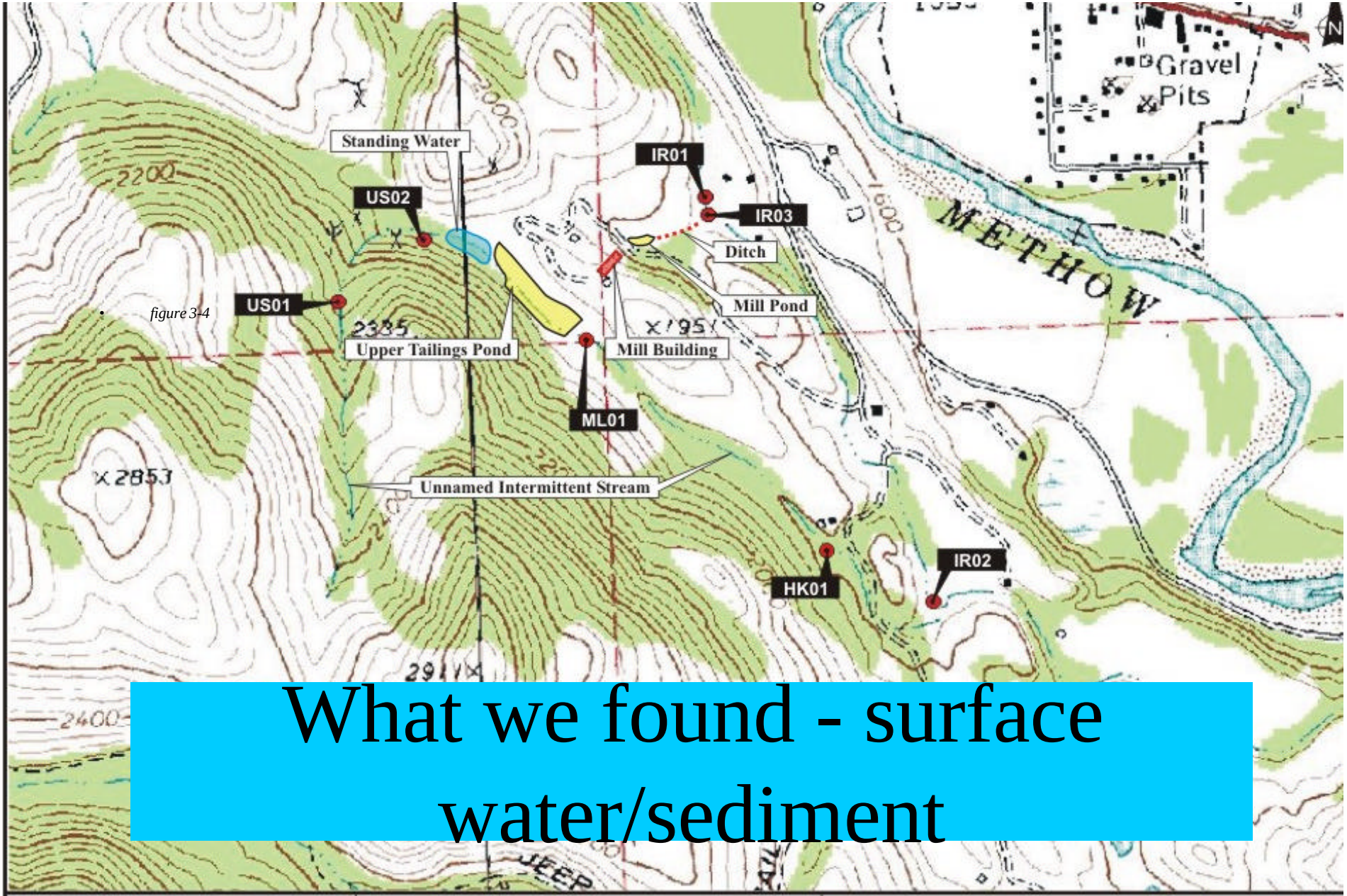


figure 3-4

What we found - surface water/sediment

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

ALDER GOLD AND COPPER COMPANY SITE
INTEGRATED ASSESSMENT
Twisp, Washington

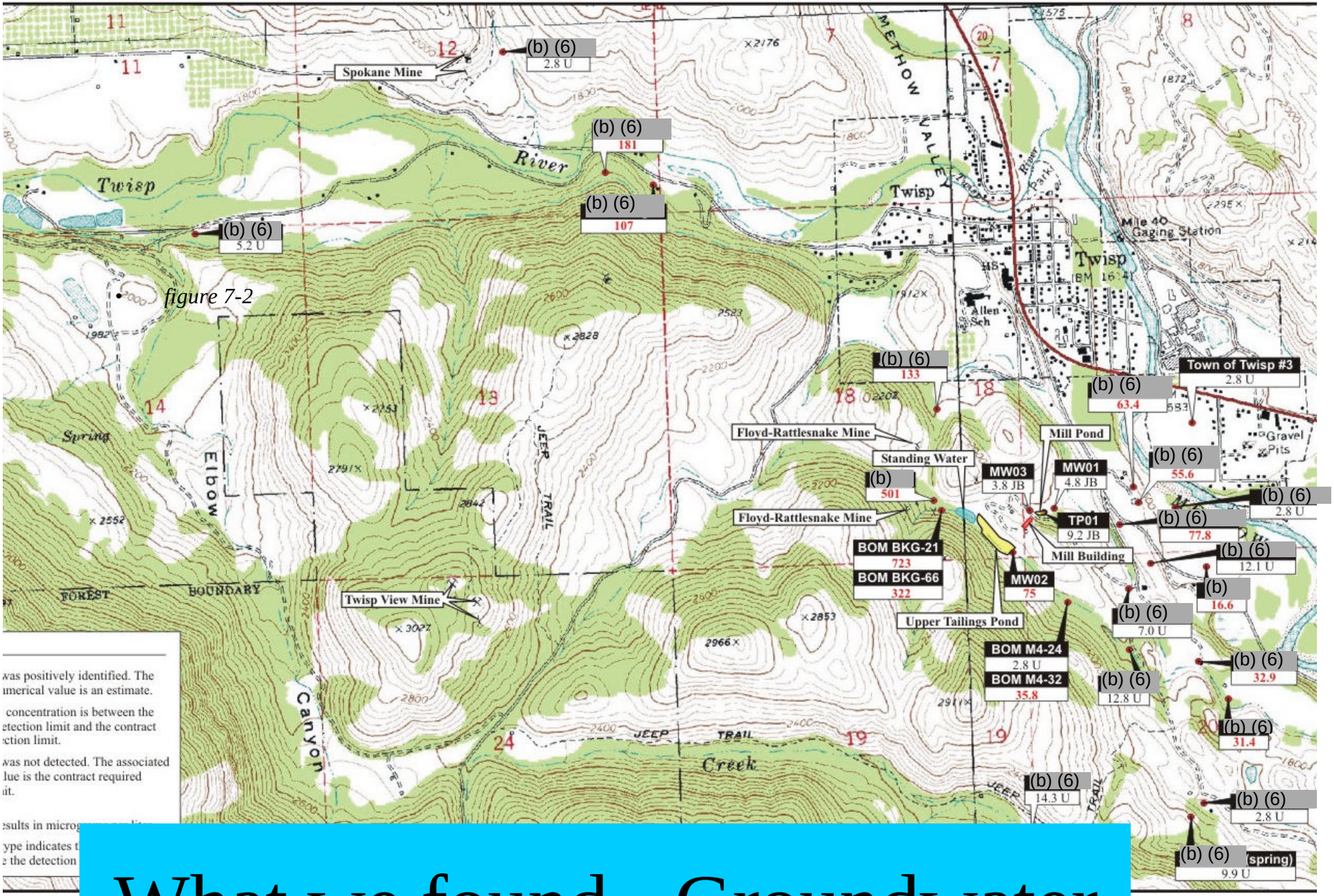
Figure 3-4
SURFACE WATER/SEDIMENT
SAMPLE LOCATION MAP

0 660 1,320
Approximate Scale in Feet

Date: 8/9/02

Drawn by: AES

10:START-2\02010007\S771\fig 3-4



was positively identified. The
umerical value is an estimate.

concentration is between the
etection limit and the contract
ction limit.

was not detected. The associated
lue is the contract required
it.

esults in microg
ype indicates t
e the detection

y and env
l Specialists in th
hington

What we found - Groundwater

Figure 7-2
IC GROUNDWATER SAMPLE

Drawn by:

Conclusions

The limited sampling performed by EPA during 2002 indicates the following:

- The geology of the area appears to have a high naturally occurring background level of arsenic.
- The Alder Mill does not currently appear to be a significant contributor of arsenic to the groundwater.

Where to go from here

- Draft EPA Assessment is out for Agency and public review.
- Arsenic from whatever source can pose a health risk. Bottled water and POU treatment are ways to reduce this risk.
- Superfund cannot be used for background related phenomenon; Bottled water will end Oct. 30.
- OCHD/WDOH can help you find a lab to test your water to see if arsenic is elevated in your well and answer general questions about POU treatment and arsenic health risks.

For more information:

- http://yosemite.epa.gov/r10/cleanup.nsf/sites/alder
- Sean Sheldrake EPA 1-800-424-4372
- Doug Hale OCHD (509) 422-7141